

February 5, 2013

TO THE FEDERAL COMMUNICATIONS COMMISSION

RE: Proceeding Number with 03-137 12-357

I have attached a few of the numerous studies that have been done on the health dangers that exist in face of our constant exposure to cell towers, cell phones WiFi and smart meters. I am concerned about the unregulated use of all of these, as well as the future of illnesses and cancers that are being anticipated because of the extreme amount of electromagnetic fields and radiation that the American public is being exposed to.

Please consider our future, now, and listen to the peer-reviewed research that is available. Prevention should be a valued guideline of this commission and significant regulation should be considered in all planning strategies.

Thank You,
Janice Simmons
Santa Fe, New Mexico

1. Changes of Clinically Important Neurotransmitters under the Influence of Modulated RF Fields—A Long-term Study under Real-life Conditions

Klaus Buchner and Horst Eger

ELECTROMAGNETIC FIELDS Journal

Original study in German: BUCHNER K, EGER H (2011) Umwelt-Medizin-Gesellschaft 24(1): 44-57.

Introduction

Despite the distribution of numerous wireless transmitters, especially those of cell phone networks, there are only very few real-life field studies about health effects available. In 2003, the Commission on Radiation Protection was still noticing that there are no reliable data available concerning the public's exposure to UMTS radiation near UMTS base stations (1).

Since the 1960s, occupational studies on workers with continuous microwave radiation exposures (radar, manufacturing, communications) in the Soviet Union have shown that RF radiation exposures below current limits represent a considerable risk potential. A comprehensive overview is given in the review of 878 scientific studies by Prof. Hecht, which he conducted on behalf of the German Federal Institute of Telecommunications (contract no. 4231/630402) (2, 3).

As early as the 1980s, US research projects also demonstrated in long-term studies that rats raised under sterile conditions and exposed to “low-level” RF radiation showed signs of stress by increased incidences of endocrine tumors (4, 5).

Concerned by this “scientific uncertainty” about how radiofrequency “cell tower radiation” affects public health, 60 volunteers from Rimbach village in the Bavarian Forest decided to participate in a long-term, controlled study extending about one and a half years, which was carried out by INUS Medical Center GmbH and Lab4more GmbH in cooperation with Dr. Kellermann from Neuroscience Inc.

This follow-up of 60 participants over one and a half years shows a significant effect on the adrenergic system after the installation of a new cell phone base station in the village of Rimbach.

After the activation of the GSM base station, the levels of the stress hormones adrenaline and noradrenaline increased significantly during the first six months; the levels of the precursor dopamine decreased substantially. The initial levels were not restored even after one and a half years. As an indicator of the dysregulated chronic imbalance of the stress system, the phenylethylamine (PEA) levels dropped significantly until the end of the study period.

The effects showed a dose-response relationship and occurred well below current limits for technical RF radiation exposures. Chronic dysregulation of the catecholamine system has great relevance for health and is well known to damage human health in the long run.

Rimbach (Bavaria).

2. NEW RESEARCH: Brain Tumor Pandemic—DNA Impacts from Mobile Phones Implicated in New Analysis

December 24, 2011, Berkeley, CA, USA & Stockholm, Sweden. An important new analysis, The Potential Impact of Mobile Phone Use on Trends in Brain and CNS Tumors, was published today in the journal Neurology & Neurophysiology. It can be downloaded without cost at <http://www.omicsonline.org/2155-9562/2155-9562-S5-003.pdf>. The paper is in a Special Issue of the journal titled “Brain Tumor.”

Neurology & Neurophysiology Journal, 12/24/11:...these preliminary findings suggest that we should prepare for about a doubled brain cancer incidence rate and possibly as high as 25 times the incidence we have today. One result of such a worldwide increase in brain cancers would be a dramatic shortage of neurosurgeons leading to increased mortality. Any statement about harmless cell phones based on only 5-10 years of years of use has no scientific basis due to the long latency times involved.

The paper, by researchers Örjan Hallberg in Sweden and L. Lloyd Morgan in the U.S., first reviews biological effects from mobile phone use reported in peer-reviewed studies, such as increased permeability of the blood-brain barrier, deleterious effects on sperm, double strand breaks in DNA, stress gene activation (indicating an exposure to a toxin), and increased risk of an acoustic nerve tumor (acoustic neuroma) and brain cancer after 10 or more years of mobile phone use. It then considered two established mechanisms for the development of brain cancer—that mobile phone use decreases the efficiency of the repair of mutated DNA and that mobile phone use increases the rate of DNA mutations.

Based on a 30-year time between first mobile phone use and diagnoses of brain cancer (latency time), the model predicts that there will be a 100% increased incidence of brain cancer (2-fold) if DNA repair efficiency is decreased by mobile phone use, and a 2,400% increase in brain tumors (25-fold) if mobile phone use mutates DNA. The figure below, from the paper illustrates these predictions.

The public health risk modeling process used in this analysis was developed by Örjan Hallberg and has been successfully applied in other illnesses, including Alzheimer’s disease and melanoma. Hallberg says, “Such modeling, or risk projection, is important, whether for the climate or for diseases, in that it allows public health contingency planning, should the model be reasonably accurate. For example, will there be sufficient neurosurgeons should brain tumors increase as the model predicts?”

Morgan says, “What this analysis shows is that, unless mobile phone usage behavior patterns change significantly, we can reasonably expect a pandemic of brain tumors, for which we are ill-prepared, beginning approximately 15 years

from now. Governments, as well as parents, physicians, schools and all citizens, would be well advised to educate all persons under their care or influence about the need to curtail the use of mobile phones and other radiation-emitting consumer devices.”

<http://www.omicsonline.org/2155-9562/2155-9562-S5-003.pdf>.

3) New study: direct link to 7191 cancer deaths from cellular antennas radiation

Science of the Total Environment Journal Mortality by neoplasia and cellular telephone base stations in the Belo Horizonte municipality, Minas Gerais state, Brazil

The study established a direct link between cancer deaths in Belo Horizonte, the third largest city, with the antennae of the mobile telephone network, reported in Science Hoje site, the news portal of the Brazilian Society for Progress Science (Sociedad Brasileña para el Progreso de la Ciencia.)

According to the study, more than 81 percent of people who die in Belo Horizonte by specific types of cancer live less than 500 meters away from the 300 identified cell phone antennas in the city.

Scientists found between 1996 and 2006 in Belo Horizonte, a total of 4924 victims within 500 meters and 7191 within 1000 meters died of cancer types that may be caused by electromagnetic radiation, such as tumors in the prostate, breast, lung, kidneys and liver.

4) The Board of the American Academy of Environmental Medicine opposes the installation of wireless "smart meters" in homes and schools based on a scientific assessment of the current medical literature (references available on request). Chronic exposure to wireless radiofrequency radiation is a preventable environmental hazard that is sufficiently well documented to warrant immediate preventative public health action.

As representatives of physician specialists in the field of environmental medicine, we have an obligation to urge precaution when sufficient scientific and medical evidence suggests health risks which can potentially affect large populations.

The current medical literature raises credible questions about genetic and cellular effects, hormonal effects, male fertility, blood/brain barrier damage and increased risk of certain types of cancers from RF or ELF levels similar to those emitted from "smart meters".

Children are placed at particular risk for altered brain development, and impaired learning and behavior.

Existing safety limits for pulsed RF were termed "not protective of public health" by the Radiofrequency Interagency Working Group (a federal interagency working group including the FDA, FCC, OSHA, the EPA and others). Emissions given off by "smart meters" have been classified by the World Health Organization International Agency for Research on Cancer (IARC) as a Possible Human Carcinogen.

Hence, we call for:

- An immediate moratorium on "smart meter" installation until these serious public health issues are resolved. Continuing with their installation would be extremely irresponsible.
- Modify the revised proposed decision to include hearings on health impact in the second proceedings, along with cost evaluation and community wide opt-out.
- Provide immediate relief to those requesting it and restore the analog meters.

Members of the Board of American Academy of Environmental Medicine